



Hassmann, competence in fasteners

Located in the state of Rio Grande do Sul, a hundred and twenty kilometers far from the capital Porto Alegre, in a small town called Imigrante, Metalúrgica Hassmann has been operating in the market since 1955. Excellence in quality, competence and dedication led the company to reach the position of one of the largest fasteners manufacturers in Brazil.

With an installed capacity to produce more than twenty thousand different types of screws, rivets and special parts, always following a rigid standard quality, Hassmann has a solid position in the market, supplying its products to the Automotive Industries, Agricultural Equipment, Electronic Systems and others.

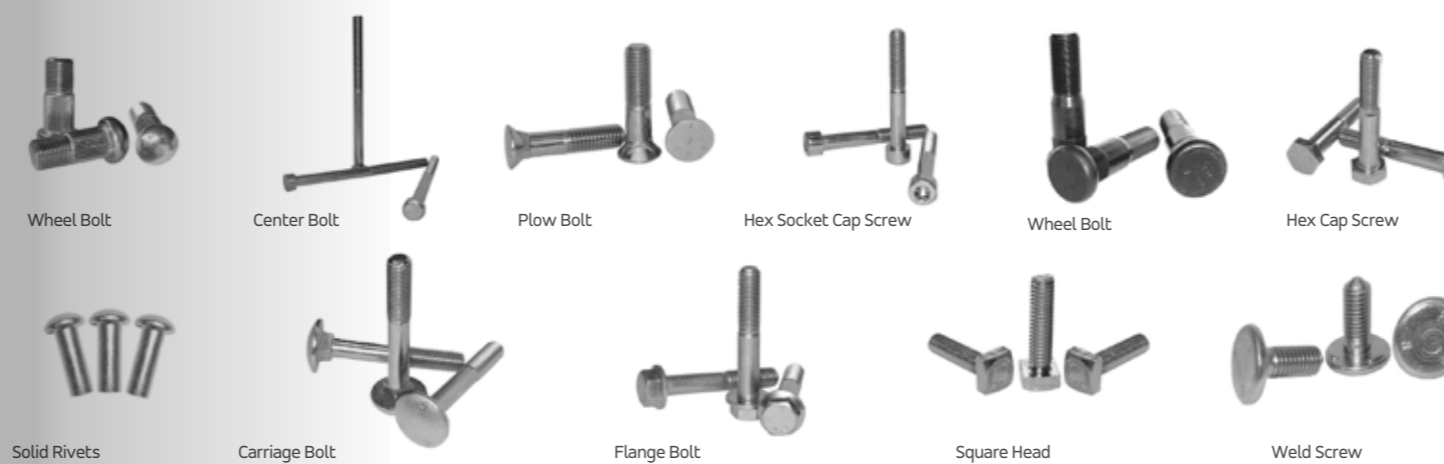
Throughout its history, Hassmann always recognized the value of human capital, allied to a respectful and caring attitude towards the environment. Also the company maintains a compromising, responsible, and dynamic relationship intended to fully satisfy its business partners.

Besides the continuous search for quality, which led Hassmann to the certifications of ISO 9001 and ISO TS 16949, the frequent commitment with environment issues certified the company with ISO 14001.



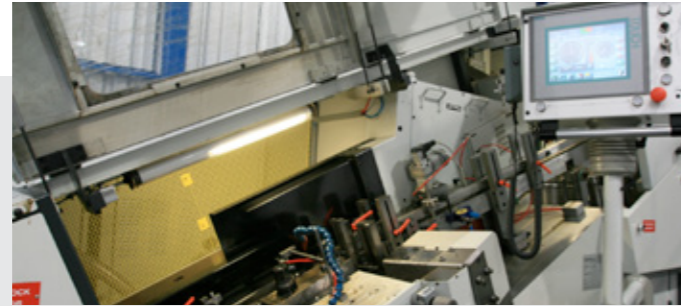
HASSMANN LINE CARD												
Line Card	Metric						Imperial					
	Cold Heading		Hot Forging		Thread	Class/Grade	Cold Heading		Hot Forging		Thread	Class/Grade
	Diam Min/Max	Lenght Min/Max (mm)	Diam Min/Max	Lenght Min/Max (mm)	Xfine=XF Fine=F Coarse=C	4.8/5.8/8.8/9.8/10.9/12.9	Diam Min/Max	Lenght Min/Max	Diam Min/Max	Lenght Min/Max	Fine=F Coarse=C	Grade 2/5/8
Hex Cap Screw	M5 to M20 M20 to M24	8 to 300 35 to 220	M8 to M30	200 to 800	XF/F/C	4.8 to 12.9	1/4 to 1"	3/8 to 12"	1/4 to 1 1/8"	8" to 30"	F/C	Grade 2/5/8
Hex Socket Cap Screw	M5 to M20 M20 to M24	8 to 300 35 to 220	M8 to M30	150 to 800	XF/F/C	4.8 to 12.9	1/4 to 1"	3/8 to 12"	1/4 to 1 1/8"	6" to 30"	F/C	Grade 2/5/8
Flange Bolt	M5 to M20 M20 to M24	8 to 300 35 to 220	M8 to M30	150 to 800	XF/F/C	4.8 to 12.9	1/4 to 1"	3/8 to 12"	1/4 to 1"	6" to 30"	F/C	Grade 2/5/8
Carriage Bolt	M5 to M20	8 to 220	M8 to M24	35 to 800	XF/F/C	4.8 to 12.9	1/4 to 3/4"	3/8 to 7"	1/4 to 1"	2" to 30"	F/C	Grade 2/5/8
Six Lob (int/ext)	M5 to M20 M20 to M24	8 to 300 35 to 220	M8 to M30	150 to 800	XF/F/C	4.8 to 12.9	1/4 to 1"	3/8 to 12"	1/4 to 1 1/8"	6" to 30"	F/C	Grade 2/5/8
12-Point	M5 to M20 M20 to M24	8 to 300 35 to 220	M8 to M30	150 to 800	XF/F/C	4.8 to 12.9	1/4 to 1"	3/8 to 12"	1/4 to 1"	6" to 30"	F/C	Grade 2/5/8
Track Bolts	M5 to M20	8 to 220	M8 to M24	35 to 800	XF/F/C	4.8 to 12.9	1/4 to 3/4"	3/8 to 7"	1/4 to 1"	2" to 30"	F/C	Grade 2/5/8
Solid Rivets	M5 to M20 M20 to M24	8 to 300 35 to 220	X	X	X	4.8 to 8.8	1/4 to 1"	3/8 to 12"	X	X	X	Grade 2/5/8
Wheel Bolts	M10 to M20 M20 to M24	20 to 300 35 to 220	M8 to M30	50 to 800	XF/F/C	8.8 to 12.9	3/8 to 1"	3/8 to 12"	1/4 to 1"	2" to 30"	F/C	Grade 5/8
Wheel Studs	M10 to M20 M20 to M24	20 to 300 35 to 220	X	X	XF/F/C	8.8 to 12.9	3/8 to 1"	3/8 to 12"	X	X	F/C	Grade 5/8
Double End Studs	M5 to M20 M20 to M24	8 to 300 35 to 220	X	X	XF/F/C	4.8 to 12.9	1/4 to 1"	3/8 to 12"	X	X	F/C	Grade 2/5/8
Weld screws/studs	M5 to M20	8 to 300	X	X	XF/F/C	4.8 to 10.9	1/4 to 1"	3/8 to 12"	X	X	F/C	Grade 2/5/8
Square Head	M20 to M24	35 to 220	M8 to M30	50 to 800	XF/F/C	4.8 to 12.9	1/4 to 1"	3/8 to 12"	1/4 to 1 1/8"	8" to 30"	F/C	Grade 2/5/8

Critical and Specials are manufactured as per Customer Drawings. | Semi specials and Machined parts are available. | Flexibility on volumes. | PPAP and Certificates are available for ALL STANDARD AND SPECIALS.



Installations and Processes

With an industrial park of 32000 square meters, Hassmann's structure is compounded by its own raw material wire drawing machinery, a complete tool making process, an integrated and independent production process, a modern heat and surface treatment, an automatic high speed inspection system and the most technologically equipped quality lab of the Brazilian fasteners field.



Production:

- Conformation Cells
- Rolling Machines
- Roller Mills
- Forging
- CNC Lathes
- Installed Capacity: 1500 ton/month (only one shift)

Heat Treatment:

- Heat Treatment Continuous Lines
- Installed Capacity: 5 ton/hour

Inspection:

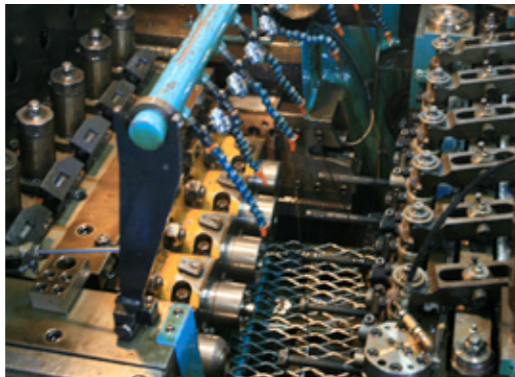
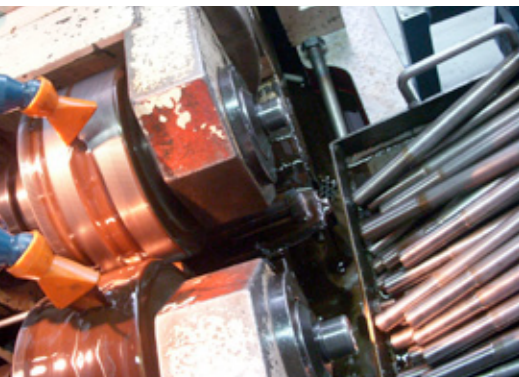
Automatic High Speed Inspection Machines

Inspection capabilities:

- Inside and Outside Diameter
- Height and Length Measurements
- Threads
- Broached slots
- Heat treatment
- Thread patch
- Nylon insert
- Part damage
- Foreign material

Quality Lab:

- Optical Emission Spectrometer
- Measurer Layers (X-Ray Fluorescence)
- Salt Spray Chamber
- Measuring Projector
- CNC Coordinate Measuring Machine (optical)
- Coordinate Measuring Machine
- Optical and Stereo Microscope
- Hardness and Microhardness Testers
- Roughness Meter
- Metallographic Preparation Equipment
- Tensile Machine
- Torque Tension Machine
- Resonant Fatigue Machine
- Scanning Electron Microscope (1 million increase)
- Fastener Transverse Vibration Test Machine (Junker Machine)



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